

**REMARKS**

Claims 15-19, 22, 23, and 26-30 have been amended to better define and better distinguish the invention over the art.

Claims 15, 18, 22, 23, 29 and 30 also have been amended to address the 112 rejections have been rendered moot. No new matter has been entered.

Turning to the Examiner's rejection of claims 13, 15, 16, 18, 19, 22, 23, 26, 29 and 30 under 35 USC § 102 as anticipated by Hogeboom (U.S. Patent 6,194,949), claims 15-19, 22, 23 and 26-30 have been amended to specify the control circuit turns on and off the second bias current. With respect to Hogeboom, as discussed in Applicant's Amendment B herein incorporated by reference, nowhere does Hogeboom teach a control signal. The Examiner points to node 220 of Hogeboom as being a control signal; however, Hogeboom's node 220 is the junction between resistor 225 and transistor 92 of bias cell 90 (Fig. 2), not a digitally generated signal. In other words, in Hogeboom, voltages are controlled in the analog mode, while in the present invention the transistors are digital controlled, i.e., turned on or off. Thus, the Examiner's rejection of claims 13, 15, 16, 18, 19, 22, 23, 26, 29 and 30 as anticipated by Hogeboom is in error.

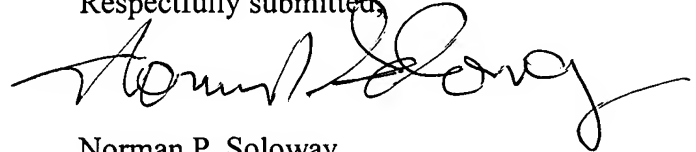
Turning to the rejection of claims 17, 27 and 28 under 35 USC § 102 as anticipated by DeClue et al. (U.S. Patent 6,281,715), these claims have been amended to specify that each push-pull compresses at least two different types of transistors. Nowhere does DeClue et al. teach this feature. As explained in Amendment B, DeClue et al. teaches push-pull circuits comprising the same type of transistor (Fig. 2). Nowhere does DeClue et al. teach push-pull circuits combining two different types of resistors. Thus, DeClue et al. cannot anticipate or render obvious claims 17, 27 and 28.

The allowance of claims 7-12, 14, 20, 21, 24 and 25 is noted with thanks.

Having dealt with all the objections raised by the Examiner, the Application is believed to be in order for allowance. Early and favorable action are respectfully requested.

In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account Number 08-1391.

Respectfully submitted,

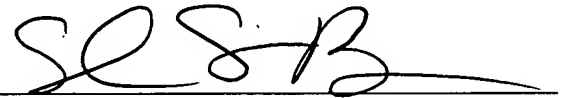


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